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BUREAU OF LAND MANAGEMENT

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Subject

H-6310 - 1 - WILDERNESS INVENTORY AND STUDY PROCEDURES

1. Explanation of Material Transmitted: This transmit H-6310 -1 - WILDERNESS INVENTORY AND STUDY PROCEDURES, which is a handbook that provides the specific policy, general procedures, and guidance for wilderness inventories under the provisions of Section 201 of the Federal Land Policy and Management Act of 1976, (FLPMA) and the designation of Wilderness Study Areas under the provisions of Section 202 of the FLPMA.
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Sylvia V. Baca  
Acting Director, Bureau of Land Management

# **WILDERNESS INVENTORY AND STUDY PROCEDURES**

**H-6310-1**

**U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

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**H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES**

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## H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES

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### Glossary of Terms

### Appendices

- A. Permanent Documentation File
- B. Inventory Area Evaluation
- C. Road / Way Analysis
- D. Photo Log
- E. WSA Boundary Delineation Guidelines and WSA Map Standards

## **H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES**

**.01 Purpose.** This Handbook contains the Bureau of Land Management's (BLM) policy, direction, general procedures, and guidance for wilderness inventories under provisions of Sections 201 of the Federal Land Policy and Management Act of 1976 (FLPMA) and the designation of wilderness study areas (WSAs) under provisions of Sections 202 of the FLPMA.

**.02 Objective.** The objective of this guidance is to establish BLM policy on wilderness inventory procedures, and provide guidance to be used in the land use planning process to determine if inventoried lands should be designated as WSAs managed under the provisions of the Interim Management Policy for Lands Under Wilderness Review (IMP).

**.03 Authority.** Principal authorities affecting the study of public lands for wilderness values are:

- A. The Federal Land Policy and Management Act of 1976, 43 USC 1701, et seq.
- B. The Wilderness Act of 1964, 16 USC 1131.
- C. National Environmental Policy Act of 1969, (NEPA), 42 U.S.C. 4321.
- D. Council on Environmental Quality (CEQ) regulations at 40 CFR 1500-1508.

**.04 Responsibility.**

- A. Director, Bureau of Land Management, shall:
  - 1. Establish policy, goals, objectives, and procedures for wilderness inventory and planning on public lands.
  - 2. Establish policy, goals, objectives, and procedures for the management of public lands with wilderness character.
  - 3. Coordinate with BLM State Directors, field offices, other agencies, or entities in conducting wilderness inventory and planning.



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4. Ensure adherence to proper delegations of authority related to decisions, actions, and policies concerning inventory, planning, and interim management protection.

5. Coordinate the development of procedures and guidance for making wilderness considerations as a part of management plan development and other planning processes.

6. Ensure compliance with the NEPA and the CEQ regulations. Serve as liaison with the Department's Office of Environmental Assessment.

**B. State Directors, within their respective jurisdictions, shall:**

1. Implement policy and provide statewide program coordination and guidance for wilderness inventory and study.

2. Review the field manager's inventory findings and through the use of the land use planning process as regulated at 43 CFR 1600, determine whether an inventory area should be designated as a WSA under the land use planning provisions of Section 202 of the FLPMA.

3. Provide program development, technical management assistance, and funding support to field offices as required to ensure wilderness is adequately considered in planning efforts.

4. Ensure compliance with the NEPA and the CEQ regulations.

**C. Field Managers, within their respective jurisdictions, shall:**

1. Gather and evaluate public input, as appropriate, for the wilderness inventory.

2. Identify and inventory areas, and determine which inventory areas or portions of inventory areas possess or lack wilderness characteristics.

3. Maintain a detailed file for each inventory area.

4. After consulting with the State Director, determine wilderness study priorities and publicly announce wilderness planning through formal publication of a Notice of Intent for the associated land use planning/NEPA process as required at 43 CFR 1610.2(c).

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5. Assure public involvement in the wilderness study process.
6. Consider wilderness through the appropriate planning process and follow applicable BLM guidance for planning and NEPA compliance.
7. Evaluate proposed actions to determine their potential impact on known or potential wilderness values prior to making a decision on the proposal.
8. Recommend to the State Director those public lands that meet the criteria for identification as WSAs.
9. Protect areas designated as Section 202 WSAs under the provisions of H-8550-1, Interim Management Policy for Lands Under Wilderness Review.

### **.05 References.**

- A. The Federal Land Policy and Management Act of October 21, 43 USC 1701, et seq.
- B. The Wilderness Act of September 3, 1964, 16 USC 1131.
- C. National Environmental Policy Act of 1969, 42 U.S.C. 4321.
- D. Council on Environmental Quality regulations, 40 C.F.R. 1500-1508.
- E. Regulations, 43 CFR Part 8560, Management of Designated Wilderness Areas.
- F. Regulations, 43 CFR Subpart 1601, Planning, and Subpart 1610, Resource Management Planning.
- G. Regulations, 43 CFR Subpart 3802, Exploration and Mining, Wilderness Review Program.
- H. BLM Handbook, H-8550-1, Interim Management Policy and Guidelines for Lands under Wilderness Review.
- I. BLM Handbook H-1600-1, Land Use Planning Handbook

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**.06 Policy.** Wilderness is a resource which fits within the framework of multiple-use on the public lands. In addition to its value as a setting for primitive recreation or solitude, wilderness can provide a range of benefits to other multiple resource values and uses which are of significance to the American people.

A. The policy of the Bureau of Land Management for the wilderness inventory and study of public lands is as follows:

1. Wilderness Inventory. The BLM will prepare and maintain on a continuing basis an inventory of certain public lands to determine the presence or absence of wilderness characteristics.
2. Identifying Inventory Areas. The BLM will identify those public lands to be inventoried and notify the public of its intent to initiate an inventory to determine the presence or absence of wilderness characteristics.
3. Identifying WSAs. The BLM will use the land use planning process to determine which inventory areas are to be managed as WSAs.

B. Inventory of Acquired Lands. All lands acquired through exchange shall undergo a wilderness inventory. Wilderness values should initially be considered and evaluated as part of the environmental analysis prepared to process the exchange. For acquired lands that do not meet the size criteria, the inventory requirement would be satisfied by documenting the size analysis in the environmental analysis prepared for the acquisition. A wilderness inventory should be completed within 90 days or as soon as practicable after the acquisition. After 90 days, parcels acquired through exchange are subject to mineral entry and to public land laws. Potential impacts, from mineral entry or from the authorization of public land laws, could affect the eligibility of an area to be designated as a WSA. For these reasons, the inventory needs to be promptly addressed to allow time to implement protective measures if needed.

Lands acquired other than by exchange, and not specifically acquired for wilderness purposes, could subsequently be inventoried to determine if they contain wilderness characteristics.

C. Inventory Requirements for Acquired WSA and Wilderness Inholdings. Inholdings acquired within WSAs or wilderness areas should be inventoried only if the land use planning document that designated the WSA or the statute establishing the wilderness area does not automatically designate acquired inholdings as part of the WSA or wilderness area.

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D. Other Public Lands That May Require a Wilderness Inventory. This includes lands identified as possibly having wilderness character by BLM, lands included in proposed legislation, or lands within externally generated proposals that document new or supplemental information regarding resource uses and condition of the lands not addressed in current land use plans and/or prior wilderness inventories.

E. Evaluation of New Information Suggesting That an Area of Public Lands Has Wilderness Characteristics. The FLPMA and the BLM planning manual require that the BLM provide opportunity for public participation in federal public land use decisionmaking conducted under FLPMA. BLM may, from time to time, receive requests from the public suggesting that existing land use plans do not adequately identify public lands that have wilderness characteristics. Further, BLM may itself generate new information suggesting that existing plans may not adequately identify public lands with wilderness characteristics.

In order for such requests from the public to be considered, they should be accompanied by (a) a map which identifies specific boundaries of the area in question; (b) a detailed narrative that describes the wilderness characteristics of the area and documents how that information significantly differs from the information in prior inventories conducted by BLM regarding the wilderness values of the area; and photographic documentation.

Managers should review any such information and documentation submitted as soon as practicable, and shall field check the information as appropriate. After such review and field checking, the BLM should make a preliminary determination whether the conclusion reached in previous BLM inventories that the area in question lacked wilderness characteristics remains valid, or whether instead there is a reasonable probability that the area in question (or a significant portion thereof) may have wilderness characteristics.

If BLM determines that the conclusion reached in previous BLM inventories remains valid, it should notify the person(s) submitting that information of that fact, but should retain the information and documentation and evidence of BLM's consideration.

If the BLM determines that the area in question (or a significant portion thereof) may have wilderness characteristics, and if actions are proposed that could degrade the wilderness values or the roadless character so as to disqualify the area from further consideration as a WSA, as discussed in paragraph .06F, below, the BLM should, as soon as practicable, initiate a new land use plan or plan amendment to address the wilderness values.

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### **F. Evaluation of Actions Proposed in Areas that May Have Wilderness Characteristics.**

When an action is proposed in an area that BLM determines may have wilderness characteristics, BLM should follow the process outlined below:

The BLM manager should first determine if the proposed action is consistent with the land use plan in effect for that area. If it is not, then consideration cannot proceed without a new land use plan or plan amendment.

If it is consistent with the land use plan, the BLM manager should prepare a NEPA document for the proposed action. That NEPA document should consider available new information on wilderness characteristics as discussed in .06E.

If the BLM determines that impacts from a proposed action could degrade the wilderness values or the roadless character so as to disqualify the area from further consideration as a WSA, the BLM must consider in the NEPA document an alternative of mitigating or relocating the proposed action to avoid or minimize impacts on wilderness values; and must also consider the alternative of postponing a decision on the proposed action until the wilderness values can be addressed through a new land use plan or plan amendment.

Where the NEPA analysis shows that a proposed action would not disqualify the area from further consideration as a WSA, BLM may approve the action, if consistent with other applicable requirements of law and other resource management considerations.

Where the NEPA analysis shows that a proposed action would disqualify the area from further consideration as a WSA, BLM should, subject to valid existing rights, postpone the action until wilderness values can be addressed through a new land use plan or plan amendment, which process should be expedited and completed as soon as possible.

G. WSA Management. Public lands designated as a WSA through a land use plan shall be managed under the Interim Management Policy for Lands Under Wilderness Review (IMP), Handbook H8550-1, so as not to impair their suitability for wilderness designation. All WSAs will remain under the IMP until wilderness legislation is enacted by the Congress designating the area as wilderness or releasing it for other purposes, or the plan establishing the WSA is amended to modify or eliminate the WSA designation.

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H. Protesting Decisions. WSA recommendations made through the planning process are protestable to the BLM Director under the provisions of 43 CFR 1610.5-2. Protest decisions by the Director are the final decision of the Department of the Interior.

**.07 Special Provisions Applicable to Alaska**. Pending further policy guidance from the Secretary of the Interior, BLM will not conduct wilderness inventories in Alaska under the provisions of Sections 201 and 202 of the FLPMA.

### **.08 Historic Background**

A. Section 603 of the FLPMA required the Secretary of the Interior to review all areas of the public lands and determine which contain wilderness characteristics and report to the President, Interior's recommendations for proposed new units of the National Wilderness Preservation System (NWPS) by October 21, 1991. Passage of this act also authorized BLM lands to become components of the NWPS for the first time, making wilderness preservation part of BLM's multiple-use mandate. Section 603 of the FLPMA also provided the original mandate for BLM to conduct wilderness reviews. Since all wilderness review mandates of Section 603 have been completed, except for Alaska, this section of the FLPMA no longer provides pertinent direction for our present recurring land-use planning wilderness inventories.

B. Present direction for inventories is provided by FLPMA in Sections 102 (a) (2) & (8), 201 (a), and 202 (c)(4) & (9) and land-use planning in Sections 202 (a), (b), (c), and 205 (b). These sections direct BLM to "preserve and protect certain public lands in their natural condition" and to "prepare and maintain on a continuing basis an inventory of all public lands and their resources and other values (including, but not limited to, outdoor recreation and scenic values), giving priority to areas of critical environmental concern." These Sections also direct the Bureau to utilize inventory information in the development of land-use plans and coordinate public land inventories and planning efforts with other Federal, State, and local agencies and Indian tribes.

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### **.1 Wilderness Inventory Procedures**

\_\_\_\_\_.11 Introduction. This chapter contains the procedural guidance for conducting wilderness inventories of BLM administered lands.

A. Starting the Inventory. The primary function of a wilderness inventory is to document the presence or absence of public lands with wilderness character. The inventory will include gathering information and preparing a file for each inventory area.

B. Public Involvement. Public involvement may be appropriate, under certain circumstances, in conducting a wilderness inventory.

C. Previous Studies. Wilderness Study Areas (WSAs) that were previously studied under Section 603 or Section 202 of FLPMA where recommendations are pending before Congress cannot be reinventoried until such time as the Congress acts on those recommendations.

.12 The Wilderness Inventory Process. The wilderness inventory is the process of determining the presence of roadless areas with wilderness character. Inventory areas found to possess the requisite wilderness values will be further evaluated through the land use planning process to determine if they should be designated as WSAs.

A. Identify Inventory Areas. Identify inventory areas from the categories of lands described earlier in this handbook in Section .06 B-D.

1. Identification of the specific area to be inventoried will require combining existing land status and available road inventory data. The resulting inventory area will be bounded by either a road, right-of-way, non-public lands, and/or areas containing land parcels withdrawn or otherwise not subject to wilderness inventory/planning. An inventory area may be larger than the actual acquired lands because of the need to look at any contiguous roadless federal lands.

2. Each inventory area should be named or numbered for reference. A numbering sequence should not duplicate any used in previous wilderness inventories or studies.

3. A permanent documentation file should be initiated for each area to be inventoried. Appendix A provides details on the appropriate contents of this file.

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B. Initiate the Inventory. Develop appropriate public notification of the intent to initiate a wilderness inventory.

C. Prepare the Inventory Area Evaluation.

1. Complete the Inventory Area Evaluation form (Appendix B), along with a Road/Way Analysis (Appendix C), and a Photo Log (Appendix D) for each inventory area. The sample forms in Appendices B, C, and D should be adequate for most wilderness inventories, but may be modified to meet field office needs.

2. The Wilderness Inventory Evaluation form, Appendix B, will assist BLM personnel in three ways. First, it will describe and document the presence, extent, and quality of wilderness values within an inventory area. Second, it will describe ownership patterns, existing uses, permanent structures, surface disturbances, size, and other features of the area. Third, it will provide an efficient and consistent way to display BLM findings.

3. Color prints or slides and maps should be used to document each inventory area. These should illustrate representative as well as unusual characteristics of the area. Such characteristics may include roads, ways, topographic and vegetative features, recreational attractions, human impacts, development and facilities, supplemental values, and any other natural or unnatural features which are important in evaluating the presence or absence of roads and wilderness values. Photos should be keyed to a large-scale map indicating the date the picture was taken, location of photo points, and the direction the camera was facing using the photo log in Appendix D.

### .13 Wilderness Values.

A. Analysis of Roads. It is important to evaluate whether the area being inventoried contains roads. Any roads should be clearly identified and their impact on the naturalness of the area evaluated. If an access route meets the road definition, its use and possible long term need should be described.

1. In order to insure a consistent identification of "roads" as opposed to a vehicle way, the following definition has been adopted:

"The word 'roadless' refers to the absence of roads which have been improved and maintained by mechanical means to insure relatively regular and continuous use. A way maintained solely by the passage of vehicle does not constitute a road."



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This language is from the House of Representatives Committee Report 94-1163, page 17, dated May 15, 1976, on what became the FLPMA. It is the only statement regarding the definition of a road in the law or legislative history.

2. The BLM will continue to base the definition of what constitutes a "road" from the FLPMA's legislative history. The BLM previously adopted and will continue to use the following sub-definitions of certain words and phrases in the BLM road definition stated above:

a. **"Improved and maintained"** - Actions taken physically by people to keep the road open to vehicle traffic. "Improved" does not necessarily mean formal construction. "Maintained" does not necessarily mean annual maintenance.

b. **"Mechanical means"** - Use of hand or power machinery or tools.

c. **"Relatively regular and continuous use"** - Vehicular use which has occurred and will continue to occur on a relatively regular basis. Examples are: access roads for equipment to maintain a stock water tank or other established water sources; access roads to maintained recreation sites or facilities; or access roads to mining claims.

3. A route which was established or has been maintained solely by the passage of vehicles would not be considered a road, even if it is used on a relatively regular and continuous basis. Vehicle routes constructed by mechanical means but which are no longer being maintained by mechanical methods are not roads. Sole use of hands and feet to move rocks or dirt without the use of tools or machinery does not meet the definition of "mechanical means." Roads need not be "maintained" on a regular basis but rather "maintained" when road conditions warrant actions to keep it in a usable condition. A dead-end (cherry-stem) road can form the boundary of an inventory area, and does not by itself disqualify an area from being considered "roadless".

B. Analysis of Wilderness Character. The inventory will evaluate wilderness characteristics as discussed in Section 2(c) of the Wilderness Act of 1964, and incorporated in the FLPMA, which states:

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“A wilderness, in contrast with those areas where man and his own works dominate the landscape, is hereby recognized as an area where the earth and its community of life are untrammelled by man, where man himself is a visitor who does not remain. An area of wilderness is further defined to mean in this Act an area of undeveloped Federal land retaining its primeval character and influence, without permanent improvements or human habitation, which is protected and managed so as to preserve its natural conditions and which (1) generally appears to have been affected primarily by the forces of nature, with the imprint of man's work substantially unnoticeable; (2) has outstanding opportunities for solitude or a primitive and unconfined type of recreation; (3) has at least five thousand acres of land or is of sufficient size as to make practicable its preservation and use in an unimpaired condition; and (4) may also contain ecological, geological, or other features of scientific, educational, scenic, or historical value.”

1. Size. Determine if the inventory area ". . . has at least 5,000 acres of land or is of sufficient size as to make practicable its preservation and use in an unimpaired condition." Specifically, the size criteria will be satisfied for inventory areas in the following situations and circumstances:

a. Roadless areas with over 5,000 acres of contiguous public lands. State or private lands are not included in making this acreage determination.

b. Any roadless island of the public lands of less than 5,000 acres.

c. Roadless areas of less than 5,000 acres of contiguous public lands where any one of the following apply:

(1) They are contiguous with lands which have been formally determined to have wilderness or potential wilderness values, or

(2) It is demonstrated that the area is clearly and obviously of sufficient size as to make practicable its preservation and use in an unimpaired conditions, and of a size suitable for wilderness management, or

(3) They are contiguous with an area of less than 5,000 acres of other Federal lands administered by an agency with authority to study and preserve wilderness lands, and the combined total is 5,000 acres or more.

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### 2. Naturalness.

a. Affected Primarily by the Forces of Nature. Determine if the area "... generally appears to have been affected primarily by the forces of nature with the imprint of man's work substantially unnoticeable."

(1) To do that, it must be possible to observe the area as being generally natural. It must appear to have been affected primarily by the forces of nature, and people's work must be substantially unnoticeable. It must retain its "primeval character." It should be an area where the earth and its community of life are untrammelled by humans and their activities. Trammel means anything that impedes or hinders free action.

(2) An area may include some human impacts provided they are substantially unnoticeable in the area as a whole. Examples of man-made features that may be substantially unnoticeable in certain cases are: trails, trail signs, bridges, fire towers, fire breaks, fire suppression facilities, pit toilets, fisheries enhancement facilities (such as fish traps and stream barriers), fire rings, hitching posts, snow gauges, water quantity and quality measuring devices, research monitoring markers and devices, wildlife enhancement facilities, radio repeater sites, air quality monitoring devices, fencing, spring developments, and small reservoirs.

b. Describing Human Impacts. Human impacts within the review area must be described. Only significant impacts that influence the determination of the area's naturalness should be documented. If several minor impacts exist, summarize their cumulative effect on the area's degree of naturalness.

(1) There is an important difference between an area's natural integrity and its apparent naturalness. Natural integrity refers to the presence or absence of ecosystems that are relatively unaffected by human's activities. Apparent naturalness refers to whether or not an area looks natural to the average visitor who is not familiar with the biological composition of natural ecosystems versus human-affected ecosystems in a given area. The presence or absence of naturalness (i.e., do the works of humans appear to be substantially unnoticeable to the average visitor?) is the question the Wilderness Act directs the review to assess.

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(2) Caution should be used in assessing the effect on naturalness that relatively minor human impacts create. Some human works are acceptable in designated wilderness; similar impacts in a inventory area should not result in a conclusion that the area lacks naturalness. An overly pure approach to assessing naturalness must be avoided.

c. Outside Human Impacts. Human impacts outside the inventory area will not normally be considered in assessing naturalness of a area. However, if an outside impact of major significance exists, it should be noted in the overall inventory area description and evaluated for its direct affects on the inventory area. Human impacts outside the area should not automatically lead to a conclusion that a inventory area lacks wilderness characteristics.

3. Solitude or a Primitive and Unconfined Type of Recreation. Determine if the area". . . has outstanding opportunities for solitude or a primitive and unconfined type of recreation . . ." The word "or" in this sentence means that an area only has to possess one or the other. It does not have to possess outstanding opportunities for both elements, does not need to have outstanding opportunities on every acre. There must be outstanding opportunities somewhere in the area. When Inventory areas are contiguous to WSAs, evaluation of outstanding opportunities should consider and document whether Inventory areas have outstanding opportunities either on their own, or in combination with adjacent WSAs.

a. Outstanding Opportunities. The Wilderness Act does not specify what was intended by "solitude or a primitive and unconfined type of recreation." In most cases, the two opportunities could be expected to go hand-in-hand. However, the outstanding opportunity for solitude may be present in an area offering only limited primitive recreation potential. Also, an area may be so attractive for recreation use that it would be difficult to maintain opportunity for solitude; e.g. around water.

b. Each inventory area must be assessed on its own merits or in combination with an adjacent wildemess area or WSA as to whether an outstanding opportunity exists. There must be no comparison among areas. It is not permissible to use any type of rating system or scale, whether numerical, alphabetical, or qualitative (i.e., high-medium-low), in making the assessment. Good judgment must be used in determining that outstanding opportunities either do or do not exist in each area.

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(1) Dictionaries define "solitude," "outstanding," and "opportunity," as follows:

(a) Solitude: The state of being alone or remote from others; isolation. A lonely or secluded place.

(b) Outstanding: Standing out among others of its kind, conspicuous; prominent. Superior to others of its kind; distinguished; excellent.

(c) Opportunity: A situation or condition favorable for attainment of a goal.

(2) BLM defines "primitive and unconfined recreation" as nonmotorized, non-mechanical (except as provided by law), and undeveloped types of recreation activities.

c. Evaluating Qualities. Using these definitions, specific procedures for evaluating these qualities are outlined below.

### (1) Solitude.

(a) Determine whether or not the area has outstanding opportunities for solitude. In making this determination, consider factors which influence solitude only as they affect a person's opportunity to avoid the sights, sounds, and evidence of other people in the inventory area, rather than to evaluate opportunity for solitude in comparison to human habitation.

(b) Do not assume that simply because an area or portion of an area is flat and/or unvegetated, it automatically lacks an outstanding opportunity for solitude. Similarly, do not conclude that simply because an area is relatively small, it does not have an outstanding opportunity for solitude. Consideration must be given to the interrelationship between size, screening, configuration, and other factors that influence solitude.

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(c) Factors or elements influencing solitude may include size, natural screening, and ability of the user to find a secluded spot. It is the combination of these and similar elements upon which an overall solitude determination will be made. It may be difficult, for example, to avoid the sights and sounds of people in some areas unless it is relatively large. A small area, however, may provide opportunities for solitude if, due to topography or vegetation, visitors can screen themselves from one another.

### **(2) Primitive and Unconfined Recreation.**

(a) Determine whether or not the area offers an outstanding opportunity for a primitive and unconfined type of recreation. In making this determination, consider those activities that provide dispersed, undeveloped recreation which do not require facilities or motorized equipment.

(b) Some examples of primitive and unconfined types of recreation are: hiking, backpacking, fishing, hunting, spelunking, horseback riding, mountain or rock climbing, river running, cross-country skiing, snowshoeing, dog sledding, photography, bird watching, canoeing, kayaking, sailing, and sight seeing for botanical, zoological, or geological features, or other activities permitted in wilderness.

(c) An area may possess outstanding opportunities for a primitive and unconfined type of recreation either through the diversity in the number of primitive and unconfined recreational activities possible in the inventory area or the outstanding quality of one opportunity. Other factors to consider:

(i) Present visitor use of an area is not necessary in evaluating this criterion. The factor to be determined is whether an outstanding opportunity is present, regardless of present amount of use.

(ii) The absence of a trail system or convenient access is not a valid basis for concluding that an outstanding opportunity for primitive and unconfined recreation does not exist.

(iii) The absence of water in an area is not a valid basis for concluding that an outstanding primitive recreation opportunity does not exist.

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(iv) "Challenge" and "risk" are appropriate for consideration under this criterion. However, their presence is not necessary in order to conclude that an area does qualify under this criterion.

### 4. Supplemental Values.

a. Determine if the inventory area contains ". . . ecological, geological, or other features of scientific, educational, scenic, or historical value." The Wilderness Act states a wilderness "may also contain" these values. Supplemental values are not required for wilderness but their presence should be documented where they exist.

b. A finding that an area being inventoried lacks any or all of the supplemental values should not affect the determination of the existence of wilderness character.

C. Boundary Adjustments. Where substantially noticeable human caused impacts occur within an inventory area, reviewers should consider the opportunity to adjust the area boundary to exclude the human impacts. Minor human impacts normally will not require a boundary adjustment, but where there are several minor impacts, they should be evaluated as to their cumulative effect on the apparent naturalness of all or part of the area. Boundary adjustments should be made to identify the parts of the area that appear natural and parts that do not. When boundary adjustments are made, a decision must be made on whether the remaining portion of the area is of sufficient size to find that it has wilderness characteristics.

1. When multiple human impacts are considered to be substantially noticeable, caution must be used in relocating the boundary to define the part of the area found to have wilderness character. Natural portions of a area located between the individual human imprints should not be automatically excluded.

2. When the boundary of the area found to have wilderness character is adjusted due to human impacts, the boundary should, where possible, be located on the physical edge of the "imprint of man". In this case, the boundary must eliminate the "imprint of man" and as little adjacent land as necessary. The adjusted boundary must not be drawn on a "zone of influence" around the imprint for these reasons: (1) consistency between inventory teams in locating this "zone of influence" would be difficult to achieve, and (2) future impacts would in effect be able to encroach on a area creating a new "zone of influence."

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3. Developed rights-of-way (ROW) are treated like other significant impacts. When a transmission line or other developed ROW is located within a area and the decision is made to eliminate its impact on naturalness from the remainder of the area, the boundary should be drawn on the edge of the ROW.

4. As a general rule, the boundary of a area is to be determined based on evaluation of the human impacts within the area. It should not be further constricted on the basis of opportunity for solitude or primitive and unconfined recreation. An area can have wilderness character even though every acre within the area does not meet the outstanding opportunity criterion. In unusual cases it may be appropriate to consider adjusting the boundary based on the outstanding opportunity criterion; for example:

a. When a narrow finger of roadless land extends outside the bulk of the area;

b. When land without wilderness characteristics penetrates the area in such a manner as to create narrow fingers of the area (e.g., cherrystem roads closely paralleling each other);

c. When extensive private inholdings create a very congested and narrow boundary area.

These situations are expected to rarely occur. Good judgment will be required in locating boundaries under such conditions so as to exclude only the minimum appropriate land. Boundary adjustments would not be necessary if the land in question possesses an outstanding opportunity for primitive and unconfined recreation.

D. Possibility of the Area Returning to a Natural Condition. An inventory area or portion of an inventory area in which human imprints are substantially noticeable, but which otherwise contains wilderness characteristics, may be further considered for designation as a WSA when it is reasonable to expect that human imprints will return or can be returned to a substantially unnoticeable level either by natural processes or by hand labor.



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.14 Completion of the Inventory Process. An inventory area found to possess the requisite wilderness characteristics as defined by the Wilderness Act of 1964 will be further evaluated through the land use planning process to determine if it should be designated as a WSA. Any portion of an inventoried area found to be roaded, unnatural, or lacking wilderness character will not be studied further.

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### **.2 Wilderness Study Procedures**

\_\_\_\_\_.21 Introduction Inventory areas will be evaluated through the land use planning process, using regulations at 43 CFR 1600, and the BLM 1600 Manual and Handbook series, to analyze the values, resources, and uses within the area. The planning process will be used to determine whether these areas should be designated as WSAs to be managed under the IMP, BLM Handbook 8550-1. Inventory areas studied under the authority of Section 202 of the FLPMA, and not designated as WSAs, will be managed as determined in the plan.

.22 Wilderness Study Process. The wilderness study must evaluate wilderness values, the ability to manage the area as a WSA, and other resource values and uses. These elements are then used to determine the most appropriate land use allocations for the affected public lands.

A. Evaluation of Wilderness Values. Consider the extent to which the quality of an area's mandatory and optional wilderness characteristics contribute to the overall value of an area for wilderness purposes. Section 4(b) of the Wilderness Act of 1964 recognized the broad scope of values to be considered in describing wilderness by stating: " . . . wilderness areas shall be devoted to the public purposes of recreational, scenic, scientific, educational, conservation, and historical use." The inventory process determined the areas which contain wilderness characteristics. The process described below will aid in determining and documenting the quality of these characteristics, and the degree to which these characteristics are present in each area. These components must be evaluated in determining an area's value as a WSA.

1. Quality of the Area's Mandatory Wilderness Characteristics. This section of the handbook defines each of the wilderness characteristics and outlines the key elements which must be addressed in evaluating the area's wilderness values. In the Wilderness Act of 1964, the Congress defines wilderness and directs that each wilderness area be managed to preserve its wilderness character. Under the definition in Section 2(c) of the Wilderness Act, certain wilderness characteristics are mandatory, while others are optional. The mandatory

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wilderness characteristics (size, naturalness, and outstanding opportunities for solitude or a primitive and unconfined type of recreation) are the factors used in the wilderness inventory to determine which roadless areas have wilderness character. These characteristics may be present in varying degrees. In each wilderness study, objective information will be gathered to enable judgment on the extent to which the quality of the area's mandatory wilderness characteristics contributes to its suitability for designation as a WSA. This section defines each of these. These elements must be documented and summarized as outlined below.

### a. Naturalness.

(1) "Naturalness" refers to the requirement in Section 2(c) of the Wilderness Act that a wilderness area "generally appears to have been affected primarily by the forces of nature, with the imprint of man's work substantially unnoticeable." The language in the Act makes clear that areas may be designated as wilderness which "generally appear" natural and which may contain some imprints of human use, so long as those imprints are "substantially unnoticeable." There are areas which have minor human imprints within their boundaries which are substantially unnoticeable in the study area. While these imprints may not have been sufficient to eliminate an area from further wilderness consideration, they must be further evaluated during the study process to determine the extent to which their presence affects the quality of overall naturalness of the area. Impacts on the overall naturalness of the study area should be assessed.

(2) Human imprints present in a study area should be evaluated both individually and on a cumulative basis. Such imprints should be summarized and documented according to each of the following:

- (a) General description of the imprints;
- (b) Location and size of the areas subject to imprints;

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- (c) Potential for separating imprinted portions from the rest of the area and recommending the remainder for WSA designation; (This may be considered through the development of partial WSA alternatives.); and,
- (d) The overall influence of human imprints on the naturalness of the area.

b. Outstanding Opportunities for Solitude or Primitive and Unconfined Recreation. Section 2(c) of the Wilderness Act states that a wilderness area must have ". . . outstanding opportunities for solitude or a primitive and unconfined type of recreation." The word "or" in this sentence means that it does not have to possess outstanding opportunities for both solitude and primitive recreation; it only has to possess one or the other. The inventory determined those areas which contain outstanding opportunities for either solitude or primitive and unconfined recreation and those areas which exhibit both characteristics. Evaluation of the outstanding characteristics should consider adjacent lands that have identified wilderness characteristics such as WSAs and wilderness areas. Generally the outstanding opportunities criteria should not be the primary factor used to determine if an area should or should not be designated as a WSA. The process described below will aid in determining and documenting the degree to which these characteristics are present in each area.

(1) Solitude. There are certain intrinsic features of an area which can be assessed objectively with respect to an area's outstanding opportunities for solitude. The features of the area to be considered in evaluating its outstanding opportunities for solitude are:

- (a) Size and configuration;
- (b) Topographic screening;
- (c) Vegetative screening;
- (d) Ability of user to find a secluded spot; and
- (e) Presence of outside sights and sounds.

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During the wilderness study, sights and sounds of human activities and works outside the boundaries of the Inventory area may be documented when assessing the quality of an area's opportunities for solitude or primitive recreation. Congressional guidance on this issue in House and Senate reports on the Endangered American Wilderness Act of 1978 has cautioned Federal agencies on the consideration of outside sights and sounds in wilderness studies. For example, in the case of the Sandia Mountain Wilderness in New Mexico, the House Report (No. 95-540), stated:

“The "sights and sounds" of nearby Albuquerque, formerly considered a bar to wilderness designation by the Forest Service, should, on the contrary, heighten the public's awareness and appreciation of the area's outstanding wilderness values.”

(2) Primitive and Unconfined Recreation. "A primitive and unconfined type of recreation" refers to those activities that provide dispersed, undeveloped recreation which do not require facilities or motorized equipment. Areas determined in the inventory to possess outstanding opportunities for this type of recreation contain either a diversity of possible activities or one activity of outstanding quality. The evaluation of this characteristic should be based on an analysis of the intrinsic features of the area which make a primitive recreation experience possible, and on the quality and diversity of the area's specific primitive recreation opportunities.

2. Quality of the Area's Optional Wilderness Characteristics (Supplemental Values). Section 2(c) of the Wilderness Act states that a wilderness area ". . . may also contain ecological, geological, or other features of scientific, educational, scenic or historical value." These optional wilderness characteristics are considered "supplemental" during a wilderness inventory, because the Wilderness Act does not require them. During wilderness studies, these features are not mandatory for an area to be designated as a WSA. However, as part of the wilderness study process, these characteristics should be thoroughly considered when assessing an area's overall value as a WSA. For example, the presence of special wildlife values or a special geological feature may provide additional reasons for recommending an area as a WSA. Consider if the protection afforded a WSA would provide additional protection of these special features.

B. Evaluation of Manageability. The Inventory area must be capable of being effectively managed as a WSA to preserve its wilderness character.

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1. General. The area must be capable of being managed to preserve its wilderness character; both to maintain the quality of its wilderness characteristics and to ensure continuation of its uses and multiple resource benefits. Evaluate the following factors to insure that those areas recommended for WSA designation can be managed in a manner which enables the *entire* area to retain its present wilderness character:

a. The provisions of BLM's IMP handbook must be considered to determine if the area can be managed as a WSA. The Handbook describes in detail how the BLM will manage public lands designated as WSAs.

b. Consider the basic thrust of interim wilderness management appropriate to the Inventory area in view of the expected uses and activities in the area. For instance, part of the area might be managed with emphasis on protecting undisturbed wildlife habitat, while another part might be managed with emphasis on primitive camping use. Attention should be given to means for protecting wilderness characteristics (including supplemental values) and for dealing with specific management problems anticipated as a result of other uses within the area or other conflicting uses outside of the area. The phrase "effectively managed" means that an area can be managed to maintain the wilderness characteristics that qualified the areas as inventory areas.

c. BLM must be reasonably certain that the inventory area could be managed as a WSA over the long run, based on present knowledge of the resources, on-going uses, and private rights in the area. If the allowed uses, including the exercise of valid existing rights, are expected to cause a substantially noticeable impact even after any reclamation is applied, then the BLM should reasonably conclude that the affected portion cannot be managed as a WSA.

2. Land Status. Document the land status of the inventory area. Subsurface rights in an inventory area may be owned by a party other than the Federal Government, thus limiting BLM's ability to preserve wilderness character on the surface.

3. Access to State or Private Inholdings. In addressing manageability, assess the potential impact of providing access to non-Federal inholdings subject to valid existing rights.

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4. Use of Buffer Zones. The fact that non-wilderness activities or uses can be seen or heard from areas within the inventory area shall not be considered when analyzing an area's manageability as a WSA.

C. Other Resource Values and Uses. Consider both the extent to which other resource values and uses of the area would be forgone or adversely affected as well as the benefits that may accrue to other multiple resource values and uses as a result of designating the area as a WSA. Any Environmental Impact Statement on a plan considering the establishment of WSAs should identify a range of alternatives allocating combinations of all or part or none of the inventory area(s) as a WSA. If the preferred alternative proposed in the plan recommends the area as a WSA, the BLM should identify the probable effects, both positive and negative, on other resource values and uses present in the area which could result from the area being managed as a WSA.

A WSA recommendation must reflect a thorough consideration of any identified or potential energy and mineral resource values present in the area. The other resource values and uses to be addressed in this regard include timber, rights-of-way, water developments, rangeland, range improvements, recreation, wildlife, and all other forms of resource use practiced on the public lands. The extent to which a WSA designation may cause adverse impacts on a particular resource use will vary from area to area, depending on a number of factors, including:

- (1) The degree to which the other resource or use is present in the area;
- (2) The potential for further development of the other resource in the area;
- (3) The degree to which the other resource or use is present on other public and private lands *outside* the study area;
- (4) Local or regional economic dependence on the resource in the area; and
- (5) The degree to which use or development of the resource is compatible with or conflicts with management of the area as a WSA.

In contrast to any adverse impacts on other resource uses, the extent to which WSA designation may cause multiple resource benefits should also be documented. The report of the House Interior and Insular Affairs Committee on FLPMA (House Report 94-1163) states:

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“Emphasis should be on multiple natural values of roadless areas as part of an overall multiple use framework for a general area rather than primarily recreational uses. In addition to the public recreational use values, interim protection of the area as a WSA and possible future designation as wilderness should augment multiple use management of adjacent or nearby lands in protecting watershed and water yield, wildlife habitat preservation, preserving natural plant communities and similar natural values.”

The same emphasis on multiple resource values of wilderness appeared in the Endangered American Wilderness Act of 1978, which explicitly recognized watershed preservation and wildlife habitat protection as objectives. The Act states in general that in addition to its value as a setting for primitive recreation or solitude, wilderness can also provide a range of benefits to other multiple resource values and uses which are of significance to the American people. These multiple resource benefits may include protection of watersheds, water yield, and water quality; protection of wildlife habitat; preservation of natural plant communities; preservation of cultural and archaeological resources; and protection of scenic quality and other natural values.

The extent to which the Inventory area under study can provide such benefits will contribute to its value as a WSA. The following are the primary categories of resource uses (other than wilderness values) which could benefit from WSA designation. These should be addressed in terms of both on-site benefits (those occurring within the study area) and off-site benefits (those occurring outside the study area) which could be ensured through WSA designation:

- (1) Multiple resource values and uses which already exist in the area whose continued viability could be better ensured through the protective status of WSA designation, such as wildlife habitat and archeological sites.
- (2) Multiple resource values and uses which do not exist in the area now, but which could occur in the future as a result of the protective status of a WSA designation and natural ecological processes being allowed to function unimpeded. Examples include the return of wildlife and fish species formerly found in the area, or an improvement in water quality as a result of WSA protection.
- (3) Specific benefits likely to accrue to off-site areas not within the boundaries of the study area. Consider such benefits as protection of watersheds, water yield and water quality; and preservation of visual resources within the area as seen from outside the study area boundary.



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### .23 The Decision Making Process.

A. Integrating Wilderness Information into the Planning Process. Section .22, above, provides guidance on evaluating the quality and extent of an area's wilderness values, determining the ability of an area to be managed as a WSA, and on considering the other resource values and uses present in the area. This information should be used in the land use planning process to make the appropriate land use allocations. The information should be integrated into the planning process to document the rationale for the WSA recommendations, to insure that wilderness values are being adequately addressed in an environmental analysis, and to address impacts on other resource values and uses if an area is designated as a WSA. The information should also be used in the environmental analysis to address impacts on wilderness and other multiple resource values if a inventory area or part of an inventory area is not designated as a WSA.

B. WSA Boundaries. The WSA boundaries are determined after evaluating all the wilderness characteristics, supplemental values, other resource uses and benefits, and manageability of the area under study. Appendix E provides guidance on how to delineate WSA boundaries. Where appropriate, the planning document should identify inholdings that should be acquired. In addition the plan should identify the inholdings to be designated as part of the WSA when acquisitions are completed.

C. Final Plan and Environmental Analysis. Final land use plans are approved by the State Director. Areas designated as WSAs in the Record of Decision on the plan become WSAs managed under the IMP until such time as the Congress makes a decision on these areas or the management plan is amended to modify or remove the WSA designation. There is no requirement to send wilderness designation recommendations forward to the Congress for WSAs established under the provisions of the Handbook.

D. Final WSA Map. A WSA map representing the planning decision must be prepared and included in the WSA permanent documentation file for each WSA designated through the planning process. Appendix E provides guidance on preparation of WSA maps.

## H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES

### Glossary of Terms

Terms used in this handbook are defined as follows:

-A-

**areas of critical environmental concern (ACEC):** areas within the public lands where special management attention is required (when such areas are developed or used or where no development is required) to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wildlife resources, or other natural systems or processes, or to protect life and safety from natural hazards.

-C-

**contiguous:** lands or legal subdivisions having a common boundary; lands having only a common corner are not contiguous.

-L-

**land use plan:** a set of decisions that establish management direction for land within an administrative area, as prescribed under the planning provisions of the FLPMA. They are an assimilation of land use plan level decisions developed through the planning process at 43 CFR 1600, regardless of the scale at which the decisions were developed

-N-

**National Landscape Conservation System:** A system of Congressional, Presidential, or other designated areas managed by the BLM, the components of which include National Monuments, National Conservation Areas, Wilderness Areas, Wilderness Study Areas, Wild and Scenic Rivers, National Historic Trails, National Scenic Trails, the California Desert Conservation Area, and the Headwaters Forest Reserve.

-O-

**outstanding:** 1. Standing out among others of its kind; conspicuous; prominent; 2. superior to others of its kind; distinguished; excellent.

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-P-

**primitive and unconfined recreation:** non-motorized, non-mechanized (except as provided by law), and undeveloped types of recreational activities. Bicycles are considered mechanical transport.

**public lands:** any land and interest in land owned by the United States within the several States and administered by the Secretary of the Interior through the Bureau of Land Management, without regard to how the United States acquired ownership, except:

- lands located on the Outer Continental Shelf;
- lands held in trust for the benefit of Indians, Aleuts, and Eskimos; and
- lands where the United States retains the mineral estate but the surface is private.

-R-

**roadless:** refers to the absence of roads which have been improved and maintained by mechanical means to insure relatively regular and continuous use. A way maintained solely by the passage of vehicles does not constitute a road.

-S-

**solitude:** 1. the state of being alone or remote from others; isolation; 2. a lonely or secluded place.

-W-

**wilderness:** the definition contained in Section 2(c) of the Wilderness Act of 1964 (78 Stat. 891).

**Wilderness Study Area (WSA):** a designation made through the land use planning process of a roadless area found to have wilderness characteristics as described in Section 2(c) of the Wilderness Act of 1964.

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## H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES

### APPENDIX A

#### PERMANENT DOCUMENTATION FILE

The file should include the following:

1. **Inventory Area Evaluation:** (Appendix B).
2. **Road Inventory:** Copy of reference to road inventory or copy of Road / Way Analysis. (Appendix C).
3. **Photo Log.** (Appendix D).
4. **Photographs.**
5. **Inventory Maps.** Maps used in conducting and documenting findings of wilderness inventories. Maps depict the inventory area name, number, boundary, photo points, and areas having wilderness characteristics. USGS 7.5 minute series topographic base maps are recommended.
6. **Miscellaneous.** Include additional notes, forms, maps, documents.
7. **Final WSA Map.** Include a WSA map prepared on 7.5 minute series USGS base maps. This map will represent the WSA boundary as established through the planning process. Appendix E provides additional guidance on preparation of this map.

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**H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES**

**APPENDIX B**

**INVENTORY AREA EVALUATION**

NAME & NO. \_\_\_\_\_

- I. DESCRIPTION: (Include acreage, land ownership, location, topography, vegetation and summary of major human uses/activities)

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**INVENTORY AREA EVALUATION (cont.)**

NAME & NO. \_\_\_\_\_

**II. WILDERNESS CHARACTER ANALYSIS:**

Analyze in a concise narrative the following essential wilderness characteristics.

**A. SIZE**

Approximate Acres:

Inventory area \_\_\_\_\_

Subunit(s) \_\_\_\_\_

TOTAL \_\_\_\_\_

Contiguous WSA (or other lands with wilderness character)\_\_\_\_\_

Narrative:

Summary: 1. Does the area have at least 5,000 acres of contiguous land or is it of sufficient size to make practicable its preservation and use in an unimpaired condition?

YES\_\_\_ NO\_\_\_



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**INVENTORY AREA EVALUATION (cont.)**

NAME & NO. \_\_\_\_\_

**B. NATURALNESS**

Narrative:

Summary: Does the area generally appear to have been affected primarily by the forces of nature, with the imprint of people's work substantially unnoticeable?

YES\_\_\_ NO\_\_\_

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**INVENTORY AREA EVALUATION (cont.)**

NAME & NO. \_\_\_\_\_

C. OUTSTANDING OPPORTUNITY FOR SOLITUDE OR PRIMITIVE AND  
UNCONFINED RECREATION

1. SOLITUDE

Narrative:

Summary: Does the area have outstanding opportunities for solitude?

YES\_\_\_ NO\_\_\_

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**INVENTORY AREA EVALUATION (cont.)**

NAME & NO. \_\_\_\_\_

**2. PRIMITIVE AND UNCONFINED RECREATION**

Narrative:

Summary: Does the area have outstanding opportunities for a primitive and unconfined type of recreation?

YES\_\_\_ NO\_\_\_

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**INVENTORY AREA EVALUATION (cont.)**

NAME & NO. \_\_\_\_\_

**D. SUPPLEMENTAL VALUES**

Narrative:

Summary: Does the area contain ecological, geological, or other features of scientific, educational, scenic, or historical value?

YES\_\_\_ NO\_\_\_

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**INVENTORY AREA EVALUATION (cont.)**

NAME & NO. \_\_\_\_\_

**III. SUMMARY:**

Results of wilderness character analysis:

1. Does the area meet any of the size requirements? \_\_\_\_\_yes \_\_\_no
2. Does the area appear to be natural? \_\_\_\_\_yes \_\_\_no
3. Does the area offer outstanding opportunities for solitude  
or a primitive and unconfined type of recreation? \_\_\_\_\_yes \_\_\_no
4. Does the area have supplemental values? \_\_\_\_\_yes \_\_\_no

**IV. CONCLUSION:**

Check one:

- \_\_\_ The area or a portion of the area has wilderness character.
- \_\_\_ The area does not have wilderness character.

**V. PREPARED BY:**

Title: \_\_\_\_\_ Date: \_\_\_\_\_

**VI. APPROVED BY:**

Title: \_\_\_\_\_ Date: \_\_\_\_\_

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**APPENDIX C**

**ROAD / WAY ANALYSIS**

Inventory area: \_\_\_\_\_ ROAD \_\_\_\_ WAY \_\_\_\_  
Name No.

EVALUATOR(s): \_\_\_\_\_ DATE: \_\_\_\_\_

**I. LOCATION:** TOPO QUAD NAME: \_\_\_\_\_ LENGTH: \_\_\_\_\_  
(Miles)

T. R. SEC(s)

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**II. FUNCTION:**

Arterial\_\_\_\_ Connector\_\_\_\_ Stub/spur\_\_\_\_ Other\_\_\_\_

Comments: \_\_\_\_\_

**III. CONSTRUCTION / IMPROVEMENTS:** Yes\_\_\_\_ No\_\_\_\_

Bladed\_\_\_\_ Graveled\_\_\_\_ Culverts\_\_\_\_ Surfaced\_\_\_\_ Other\_\_\_\_

\_\_\_\_ Comments: \_\_\_\_\_

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**ROAD / WAY ANALYSIS (Cont.)**

**IV. MAINTENANCE:** Yes\_\_\_\_\_No\_\_\_\_\_

\_\_\_\_\_Hand tools\_\_\_\_\_ Machine\_\_\_\_\_

Comments:\_\_\_\_\_

**V. PURPOSE:** Stock tank\_\_\_ Spring\_\_\_ Reservoir\_\_\_ Ranch\_\_\_ Farm\_\_\_

House\_\_\_ Mining\_\_\_ Hunting\_\_\_ Camping\_\_\_ Fence\_\_\_ Telephone\_\_\_

Transmission line\_\_\_ Other\_\_\_\_\_

Comments:\_\_\_\_\_

**VII. EVIDENCE OF USE:** Vehicles\_\_\_ Vehicle Tracks\_\_\_ Other\_\_\_\_\_

Comments:\_\_\_\_\_

**VIII. REGULAR AND CONTINUOUS USE:** Yes\_\_\_ No\_\_\_

Comments:\_\_\_\_\_

**IX. CONCLUSION** ROAD\_\_\_ WAY\_\_\_



**H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES****Appendix D****PHOTO LOG**

Photographer(s)\_\_\_\_\_Inventory area Name &amp; No.\_\_\_\_\_

Roll No:\_\_\_\_\_

Date Section	Frame No.	Camera Direction	Description	GPS/UTM Location	Township	Range	
	1						
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	11						
	12						
	13						
	14						
	15						
	16						
	17						

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### PHOTO LOG (Cont.)

Date Section	Frame No.	Camera Direction	Description	GPS/UTM Location	Township	Range	
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						
	28						
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	30						
	31						
	32						
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	34						
	35						
	36						

## H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES

### APPENDIX E

## WSA BOUNDARY DELINEATION GUIDELINES AND MAP STANDARDS

### A. Boundary Selection

In addition to considering the maximum protection of ecosystems, it is helpful to delineate boundaries by methods that make possible easy identification on the ground. In cases where it is necessary to mark the boundary for enforcement purposes -- it will be clearer to the public and save money if done on the basis of physical features.

The WSA boundary should be located by using one or more of the following features, listed in descending order of desirability:

1. Semi-permanent manmade features which can be located on the ground and on the map. Examples are: roads; power lines; pipelines.
2. Surveyed or legally determined lines. Examples are: township and section lines; section subdivision lines; already surveyed metes and bounds property lines; boundaries of geopolitical units or other agencies.
3. Natural features which can be located on the ground and on the map. Examples are: sharp, well-defined ridges; mountain peaks; streams; lake shore.
4. Point to point - a straight line from one locatable point to another.
5. Metes and bounds - a series of bearings and distances between locatable points.
6. Utilizing parallels of latitude and meridians of longitude, or plane coordinate systems.

## **H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES**

### **WSA BOUNDARY DELINEATION GUIDELINES AND MAP STANDARDS (Cont.)**

#### **B. Comments on Specific Applications**

1. Parallel or setback lines - may be drawn parallel with boundary roads. When setback parallel lines are used, their starting and ending points should be locatable on the ground and on the map.

2. Water boundaries - should be placed on the map with a notation to show intent of location. Only two lines are legally acceptable:

- a. The thread (centerline).
- b. Either bank along the mean high water line.

3. Metes and bounds - segments of boundaries should be limited to those portions which are impossible or difficult to locate by more definite means. This is also true for points or lines located by reference to plane coordinate systems or parallels of latitude and meridians of longitude. When situations occur where a line must be drawn cross-country with no topographic control, try to limit the length of such lines as much as possible and locate both ends of such lines to a locatable point. Advanced survey technology makes these types of boundaries easier and cheaper to locate than in the past, but specialized equipment will be necessary.

#### **C. Map Standards**

All Inventory areas should be identified on 7.5 minute USGS topographic quadrangle maps as part of a documentation file maintained in the appropriate field office. This map should be prepared as part of the inventory process, and should be the basis for maps developed in the draft environmental impact statement or plan amendment environmental assessment (DEIS/EA). These maps should be available during the public comment period on the draft plan for public inspection upon request. Different boundaries for acreage in other alternatives considered in the DEIS/EA (if any) should also be clearly shown on overlays, or on duplicate maps.

## **H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES**

### **WSA BOUNDARY DELINEATION GUIDELINES AND MAP STANDARDS (Cont.)**

A final WSA map representing the preferred alternative should be prepared at the same scale as the Inventory area maps as part of the final plan/EIS. Once the plan is final and the record of decision is signed, the WSA map will become part of the permanent documentation file for the affected WSA. (If more than one WSA is covered on the same working map, a cross-reference sheet will be placed in the appropriate files.) Final maps used to show the final WSA boundaries should, as a minimum:

1. Be topographic maps of Base Series 1:24000 (7½ minute quads). Boundary line intent usually cannot be conveyed clearly on less detailed maps.
2. Explain the intent of boundary locations with notations where necessary (such as, "100 feet setback from road centerline").
3. Show proposed boundary line with narrow, black-inked lines. The boundary lines should be fully legible and clearly delineated while not obscuring important topographic information displayed on the base map.
4. Show proposed or designated National Trails, Wild and Scenic Rivers, and other components of the National Landscape Conservation System (if any are within or adjacent to the proposed wilderness).
5. Include the following in the legend:
  - a. Name of Wilderness Study Area
  - b. Date of preparation
  - c. Name of person who prepared map
  - d. Key identifying graphic symbols or colors added to base map, including:
    - i. Proposed boundary
    - ii. Nonfederal ownership (differentiate between split estate, state, private, and other ownership)
6. \_\_\_\_\_ Be compatible with Bureau standards for digital spatial data and applicable Geographical Information System(s)